

## **General Schematic of Antibody Structure**

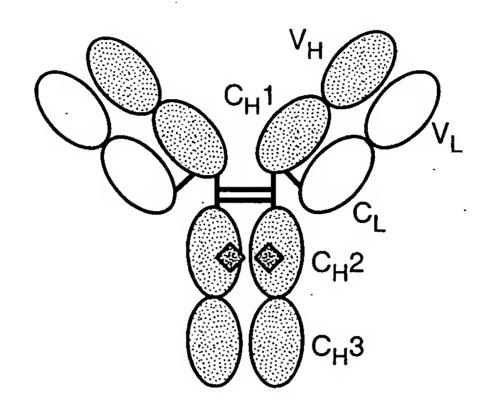
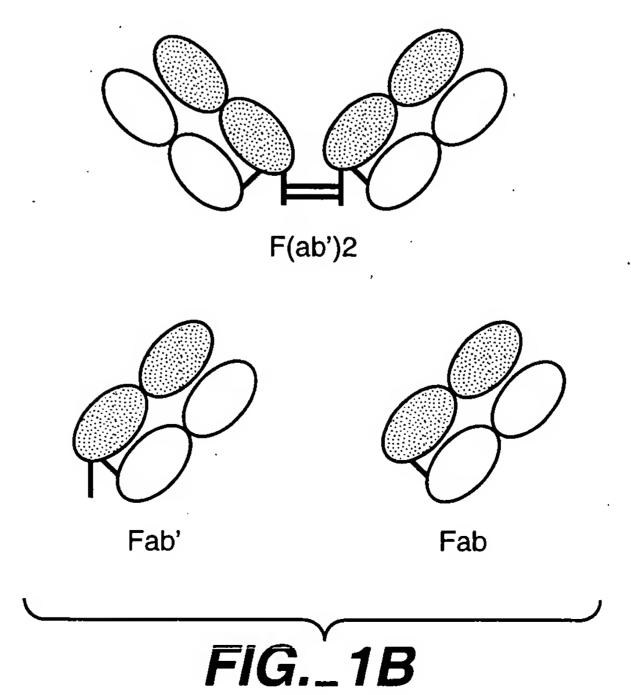


FIG.\_1A

## **General Schematic of Antibody Fragments**



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General Schematic of Antibody-Glucoamylase Fusion

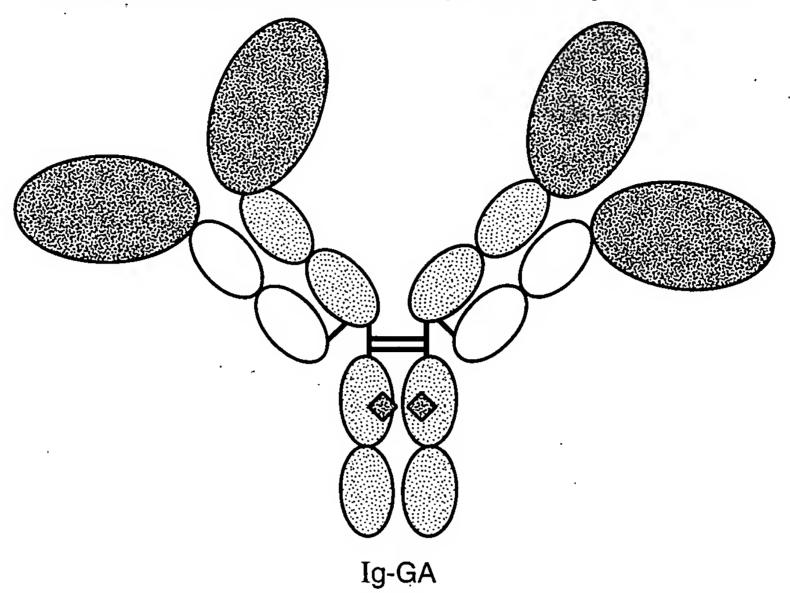


FIG.\_1C

## General Schematic of Antibody Fragment-Glucoamylase Fusions

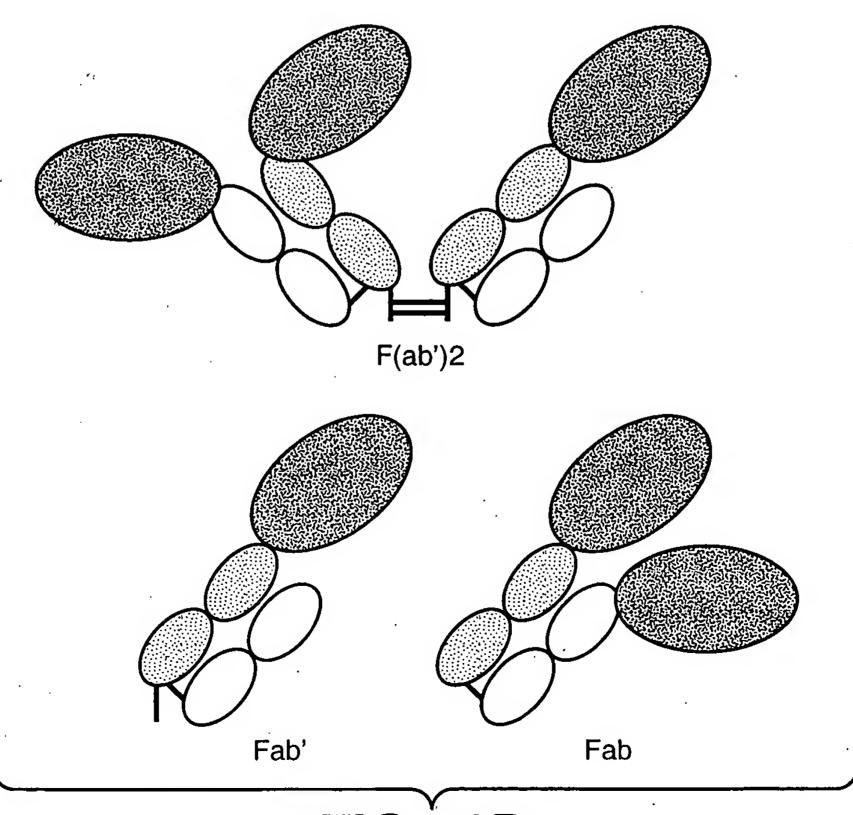
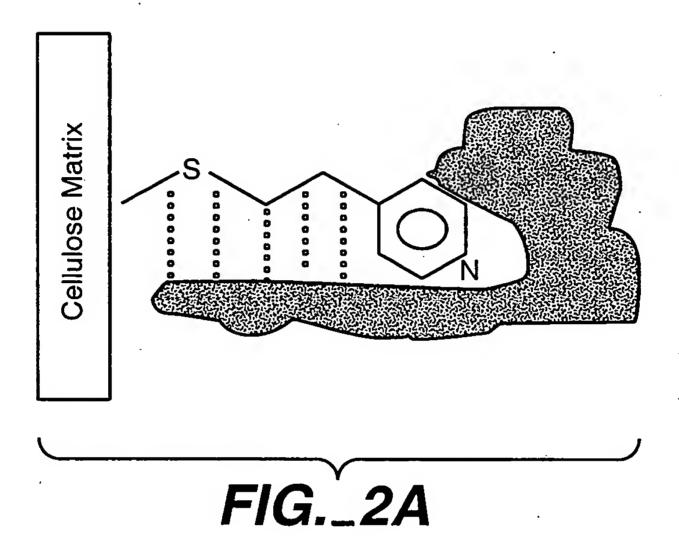
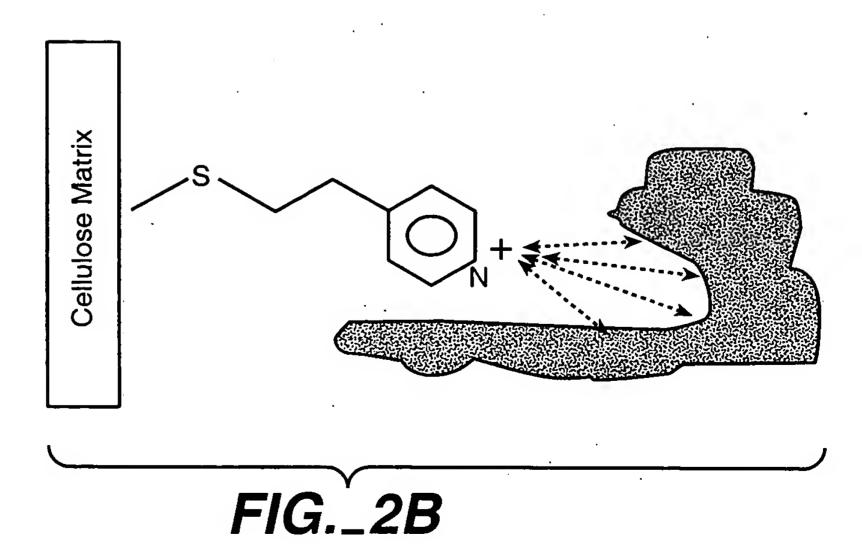


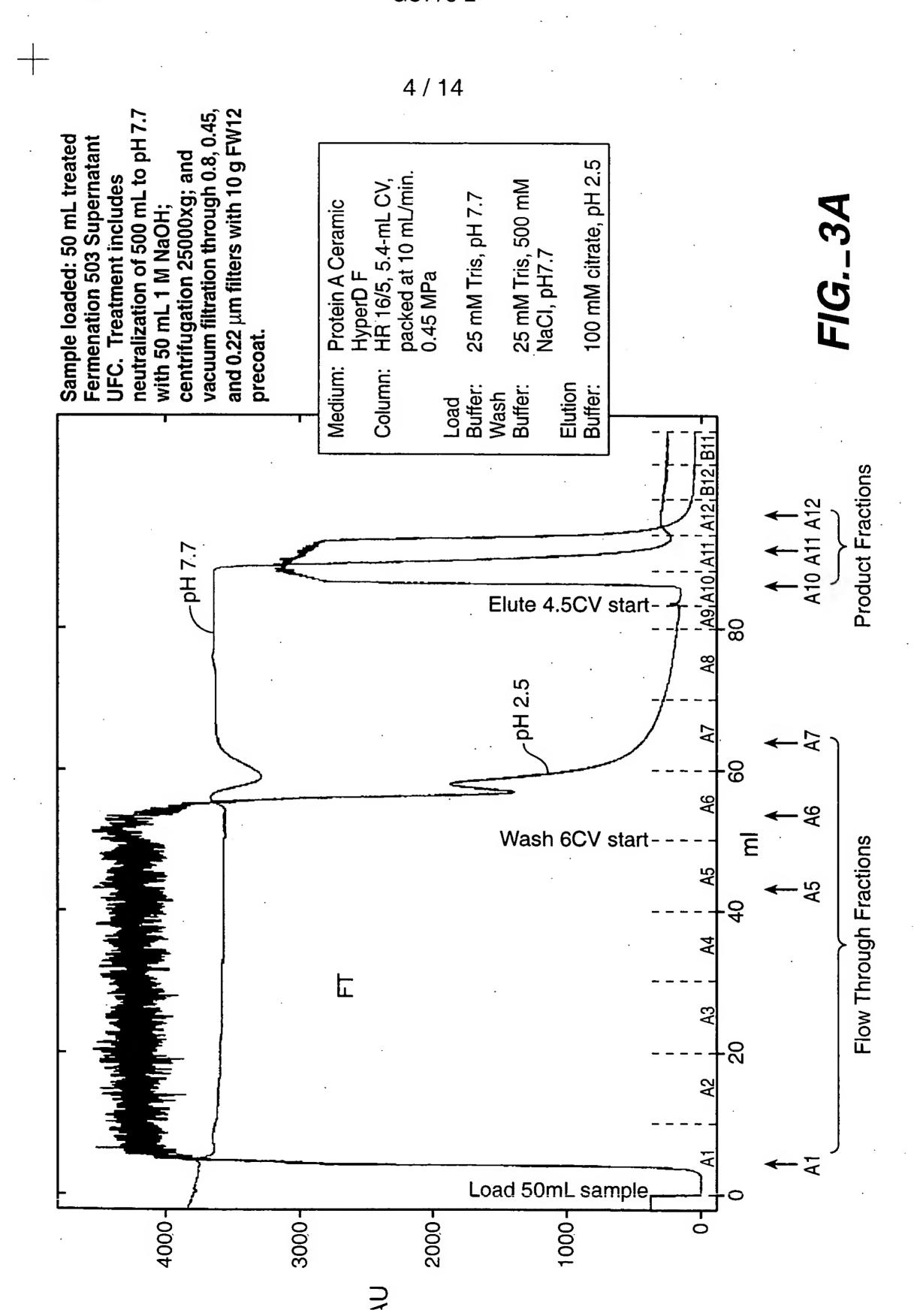
FIG.\_ 1D

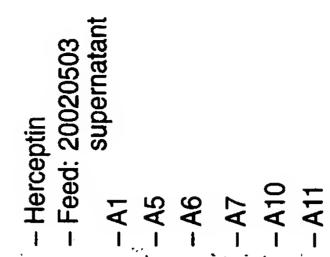
## **Adsorption by Hydrophobic Association**



#### **Desorption by Ionic Repulsion**







## PAC062602

4-12% Bis-Tris MES SDS

Reducing



-200 -116 -66 -55

-37 -22 -14

-6

#### - Herceptin - Feed: 20020503 - A1 - A5 - A6 - A7 - A10 - A11

## PAC062602

4-12% Bis-Tris MOPS SDS

Non-reducing



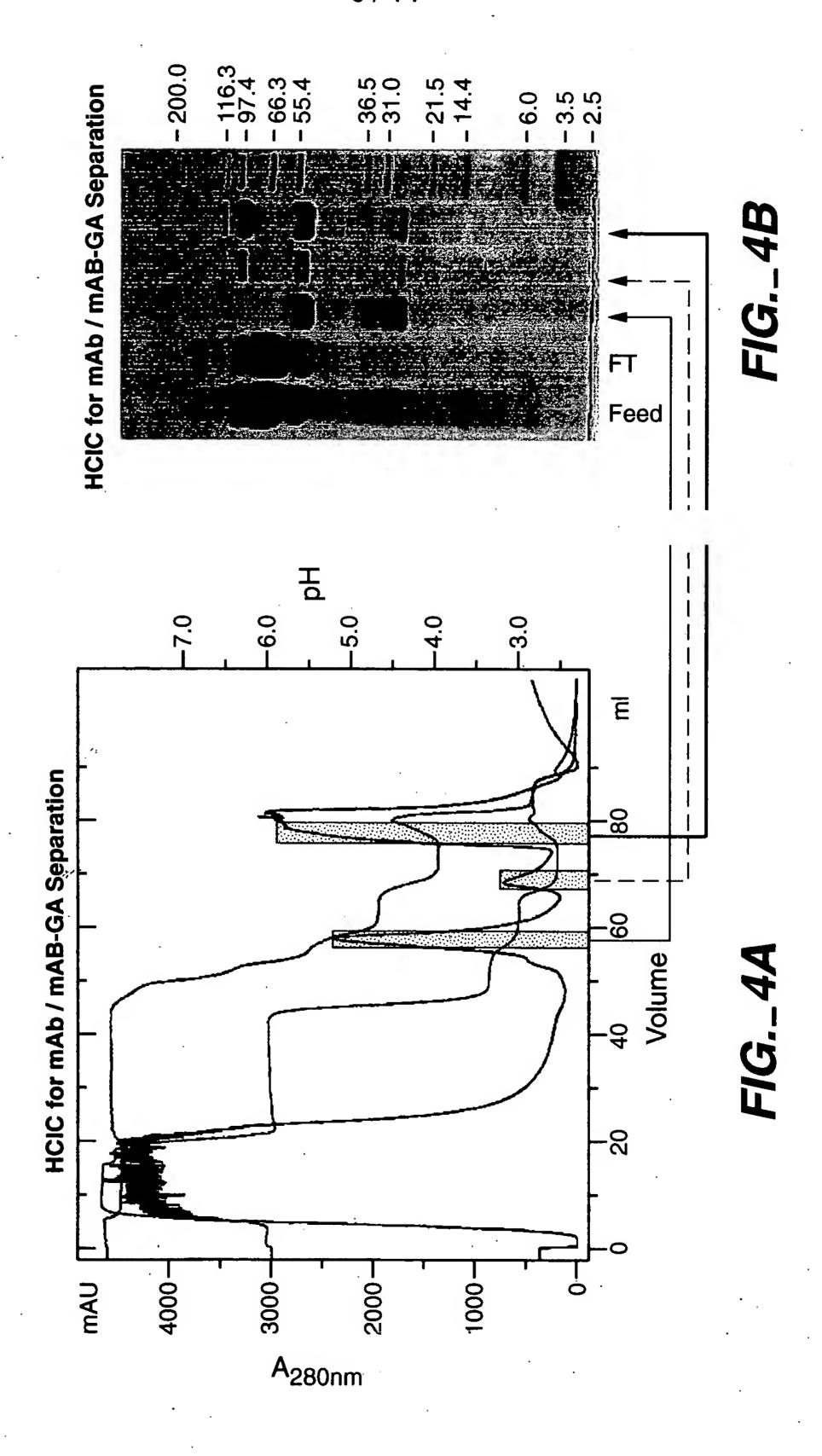
- 200 - 116 97

6655

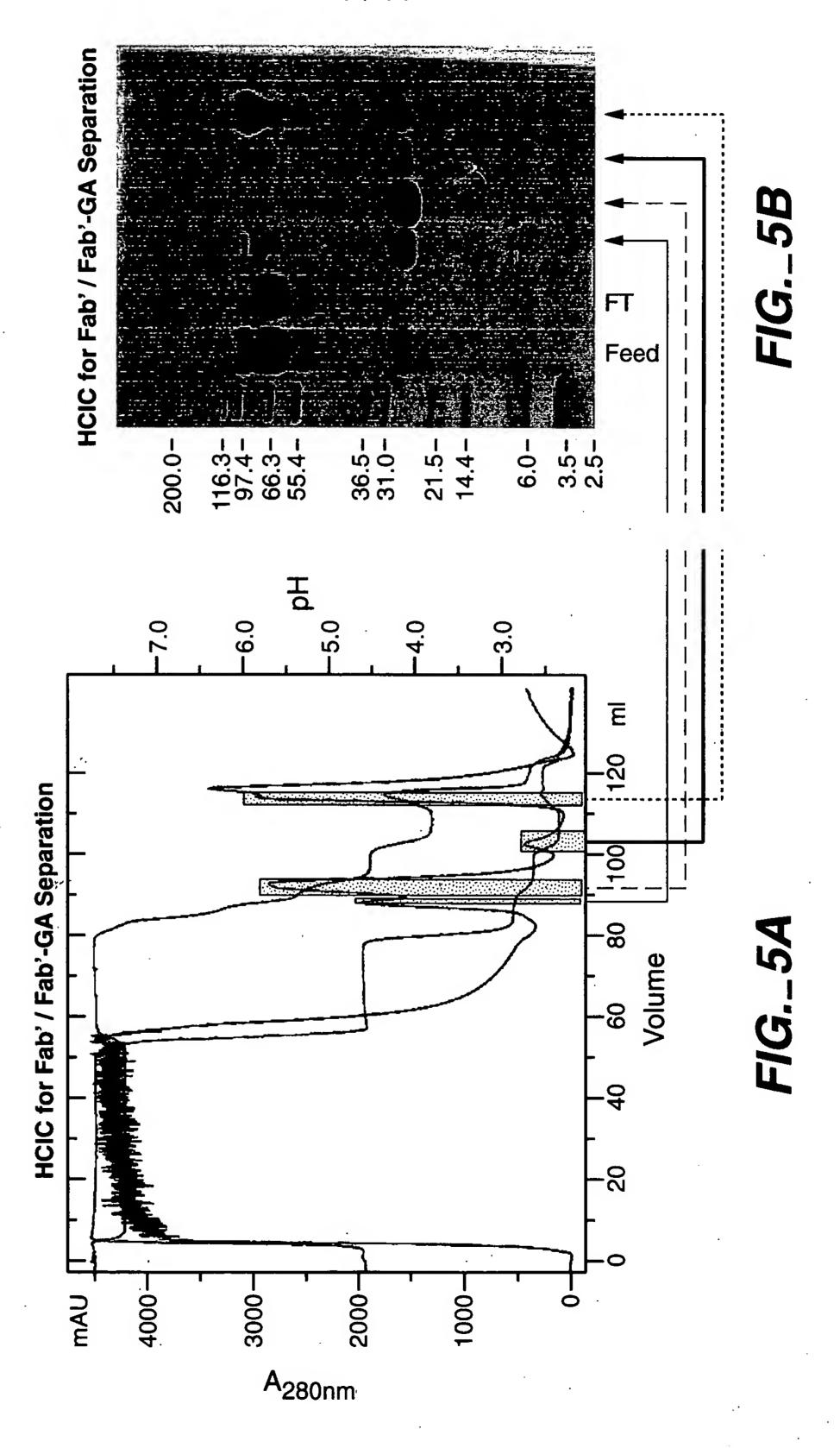
<del>-37</del> 31

- 22 - 14

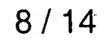
FIG.\_3B

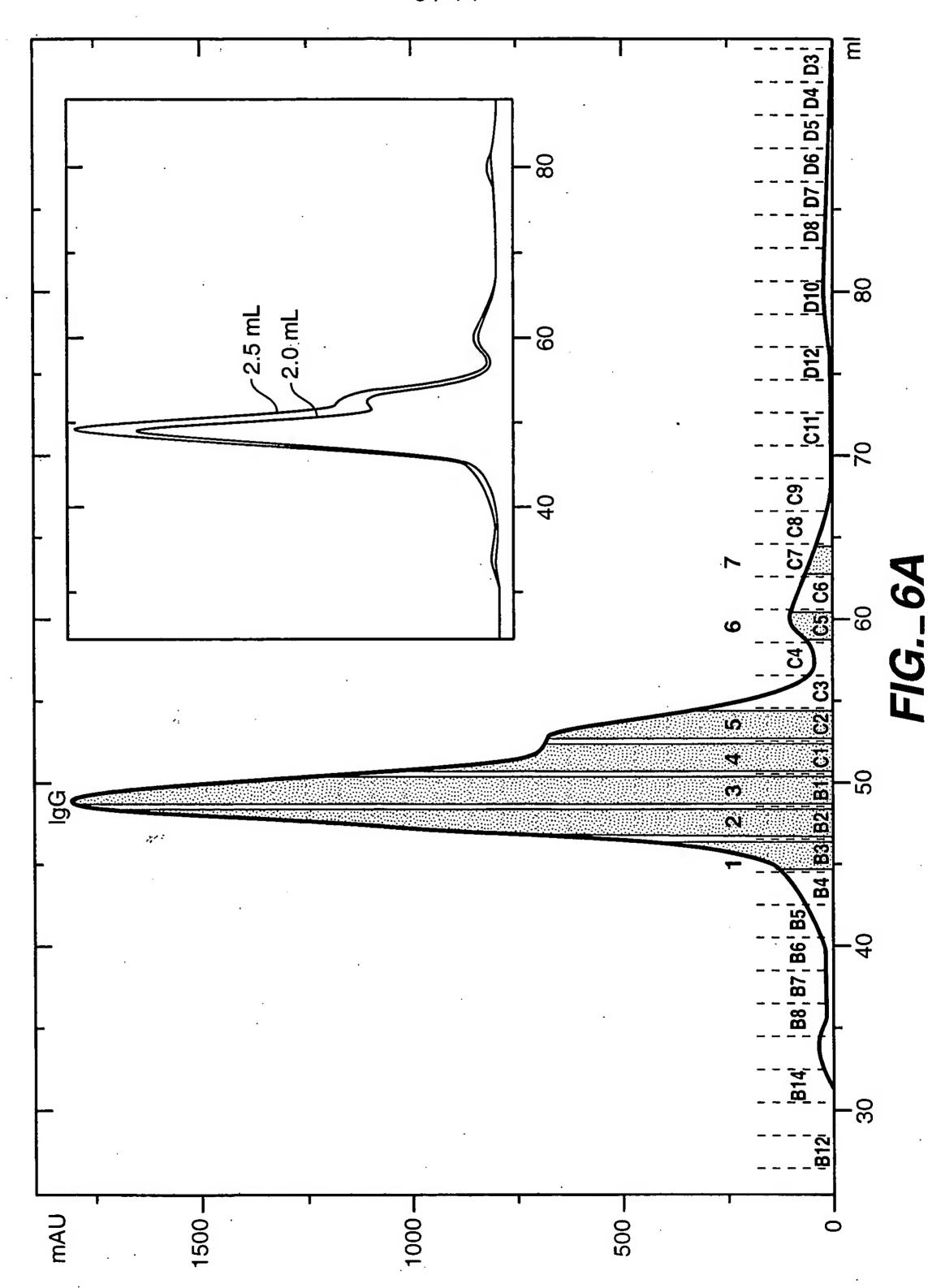


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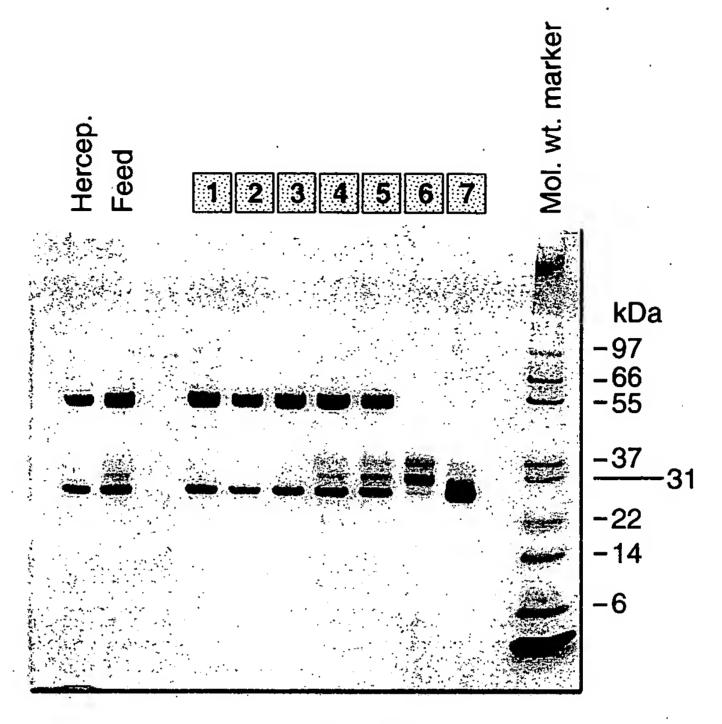


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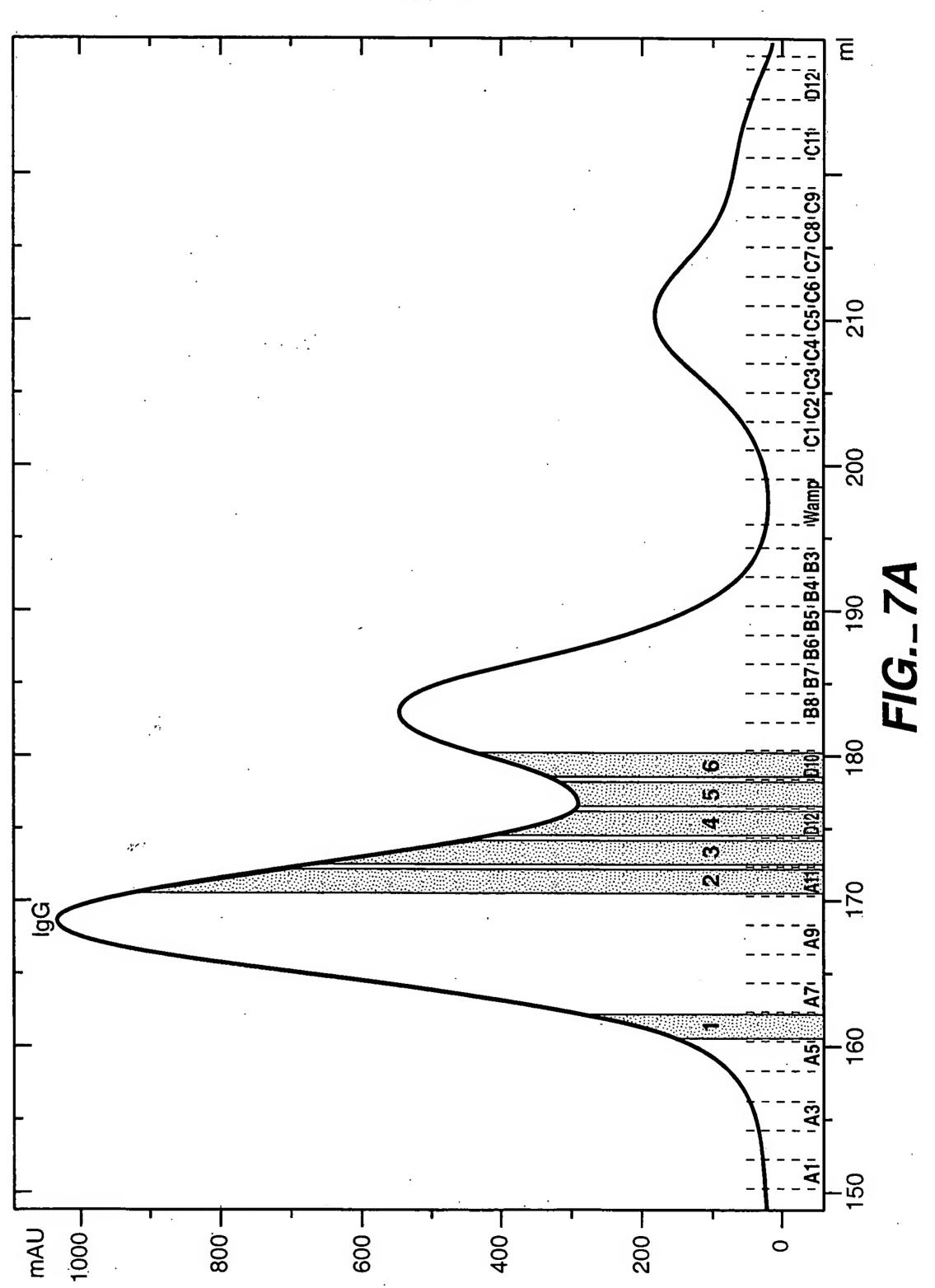
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Reducing SDS-PAGE

FIG.\_6B



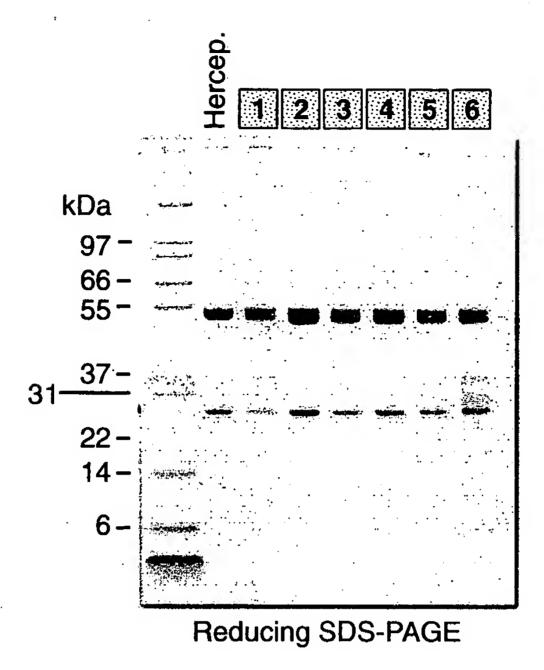


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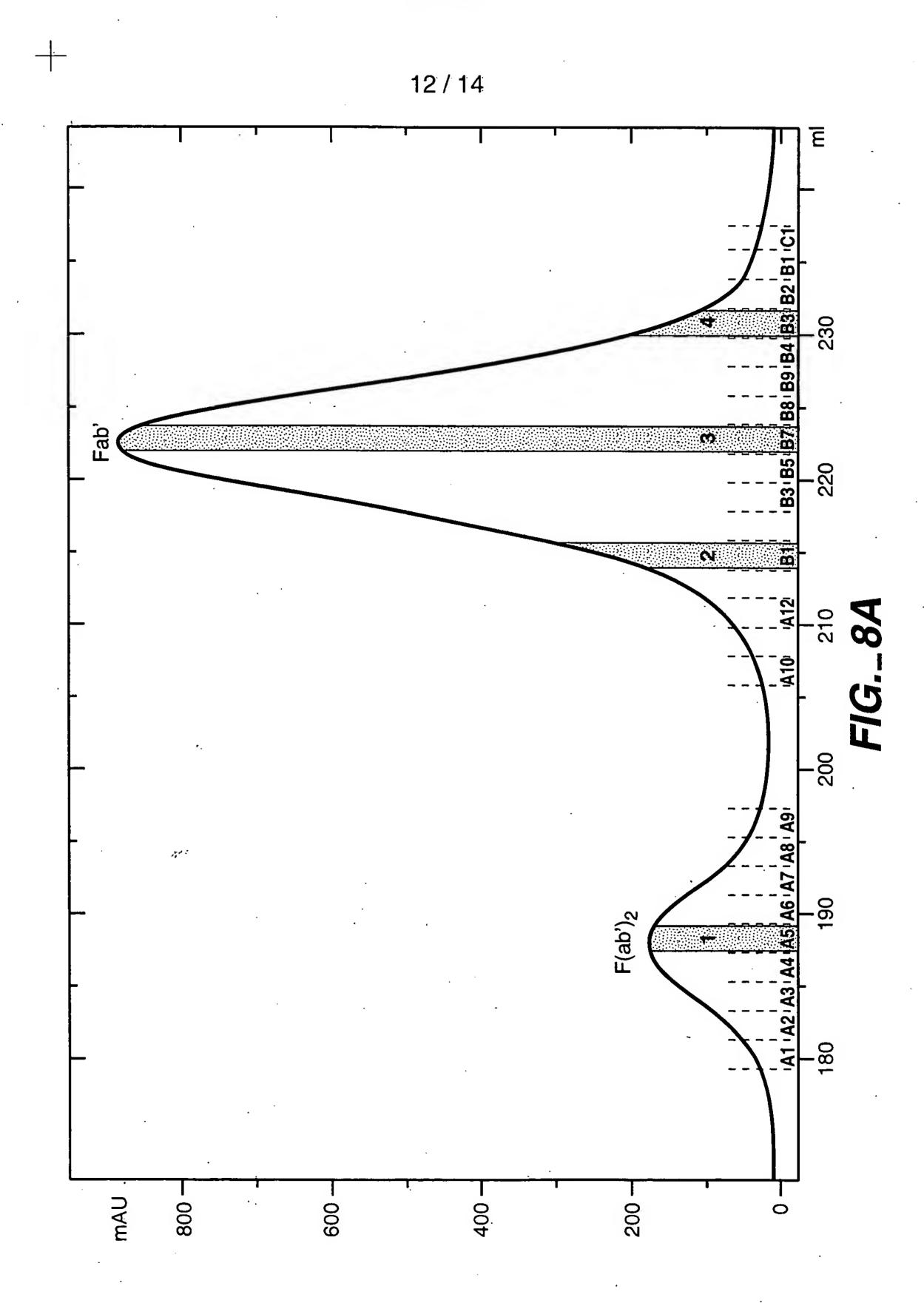
**!** 

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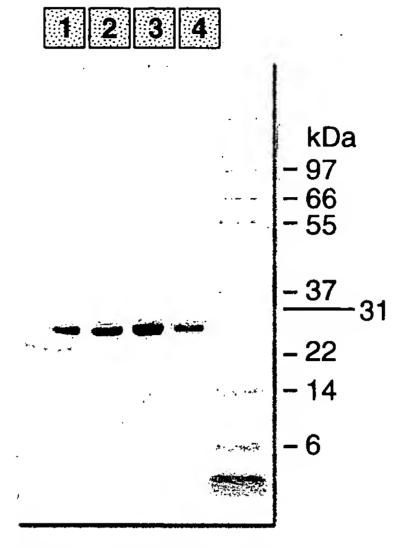


kDa 200-116-97-66-55-37-Non-reducing SDS-PAGE

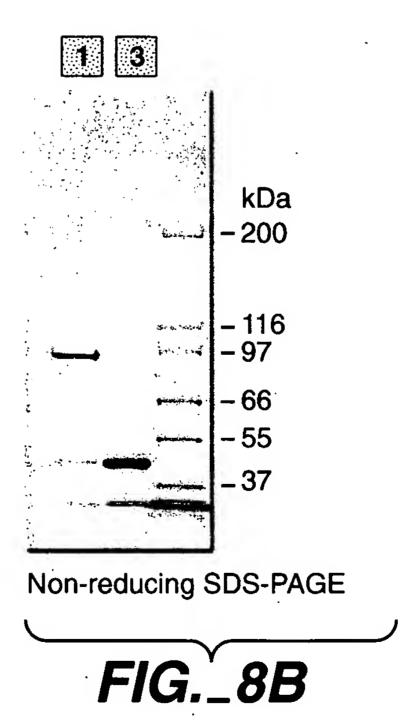
FIG. 7B

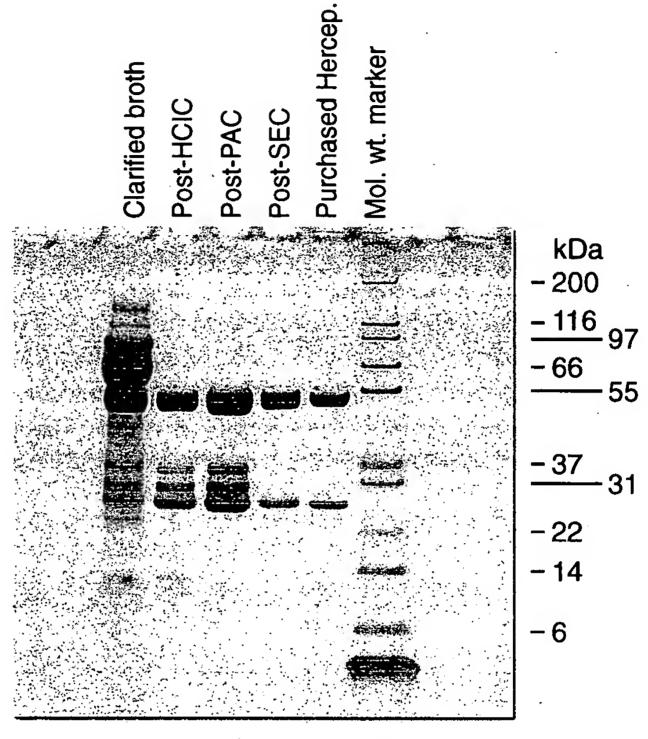


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Reducing SDS-PAGE



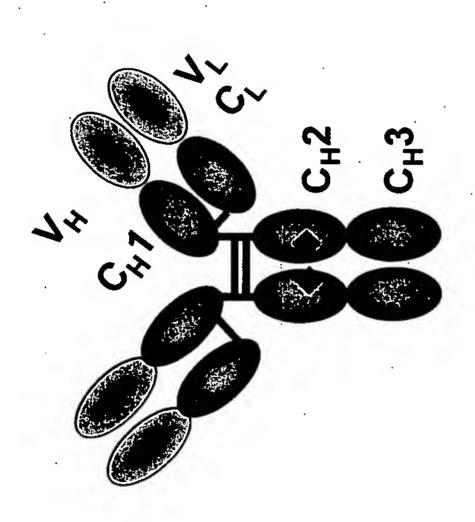


Reducing SDS-PAGE

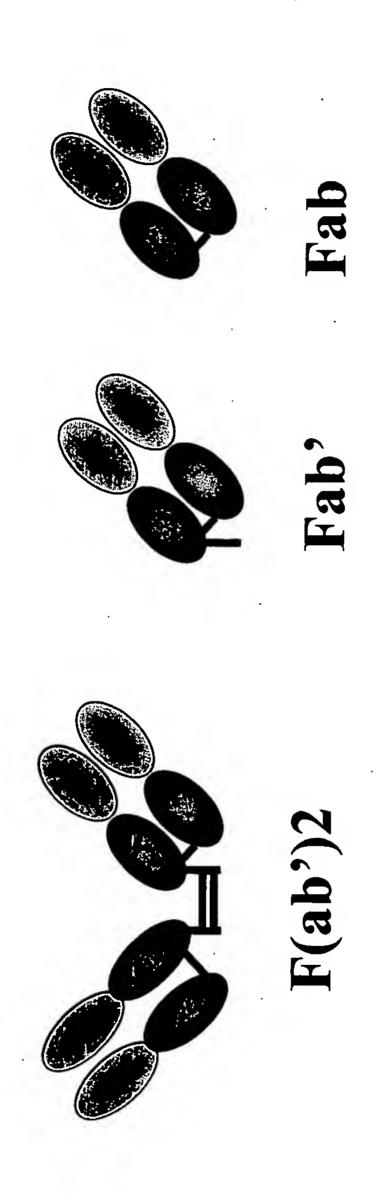
FIG.\_9



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Schematic of antibody fragments

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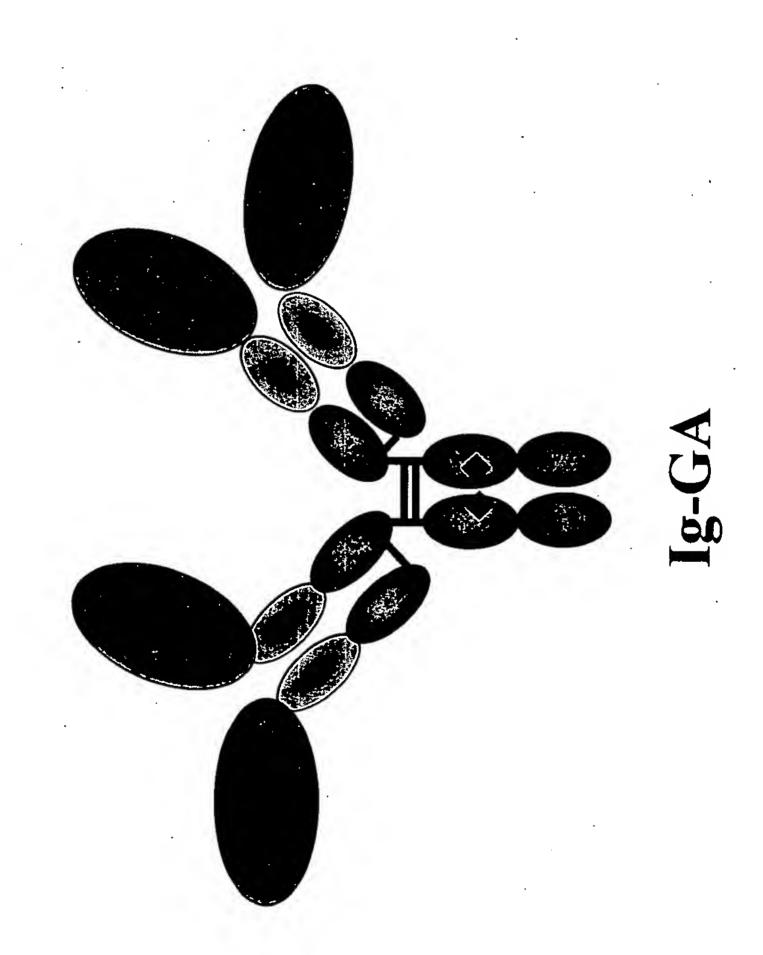


Figure 1C: General Schematic of Antibody-Glucoamylase fusi

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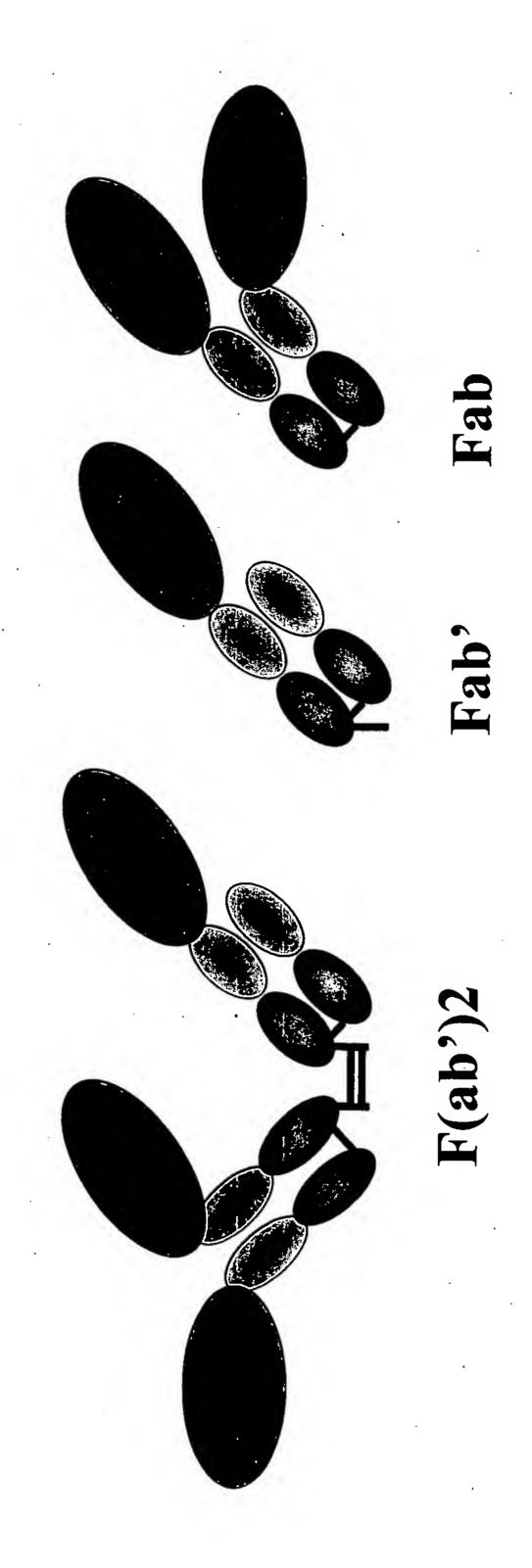
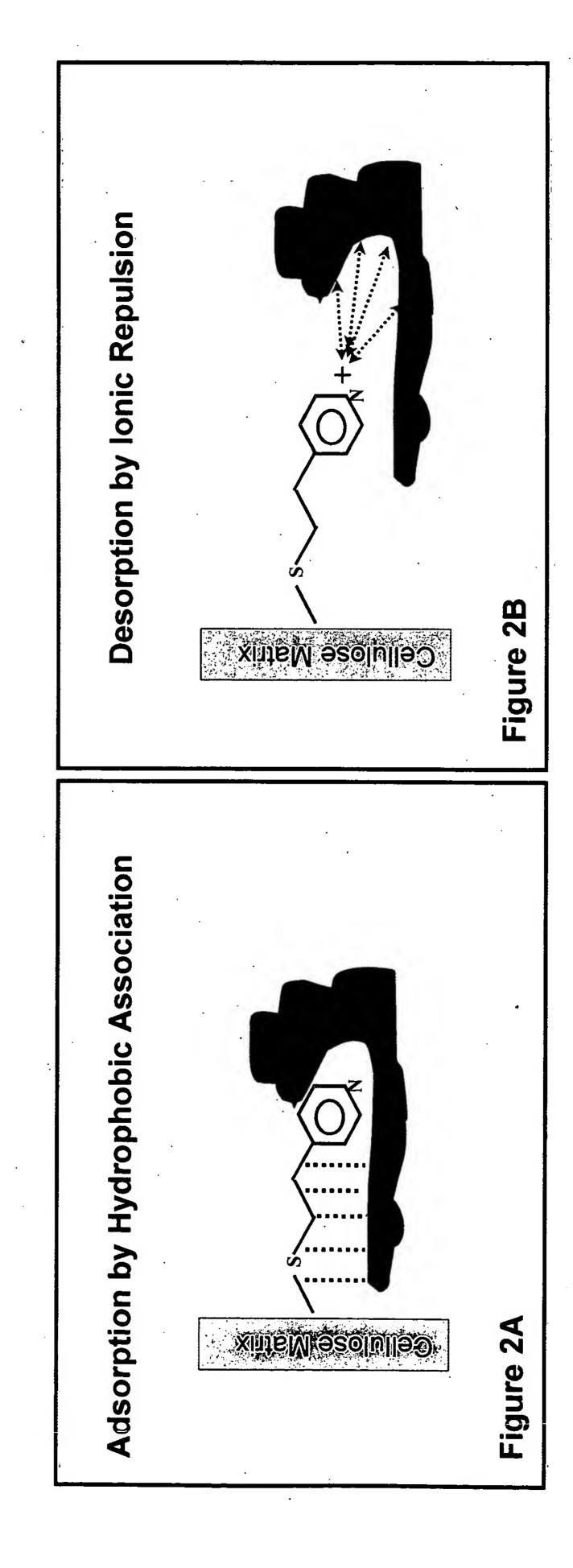


Figure 1D: General Schematic of Antibody fragment-Glucoamylase fusions

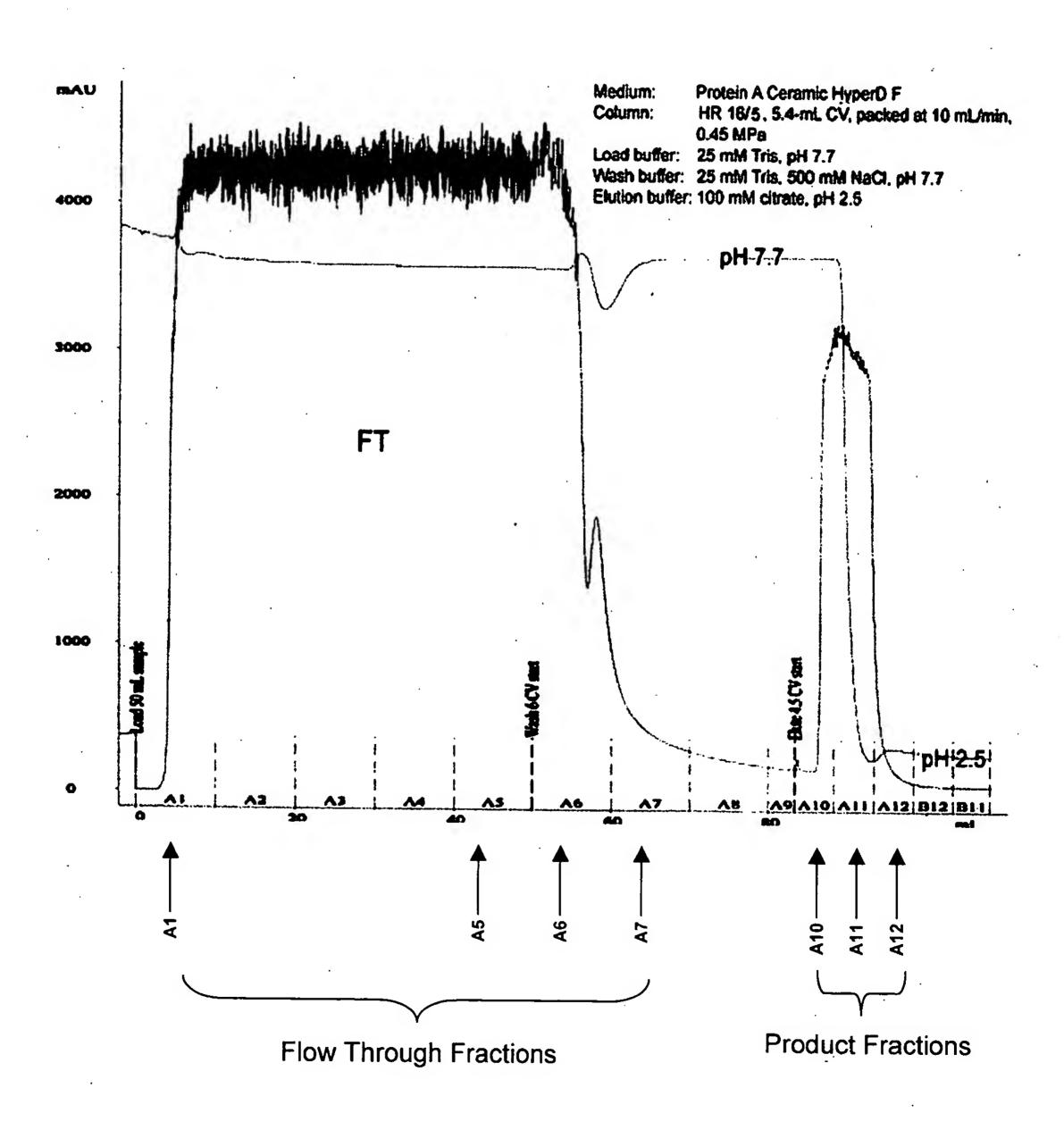
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# Figure 3A

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Sample loaded: 50 mL treated Fermentation 503 Supernatant UFC. Treatment includes neutralization of 500 mL to pH 7.7 with 50 mL 1 M NaOH; centrifugation 25000xg; and vacuum filtration through 0.8, 0.45, and 0.22 µm filters with 10 g FW12 precoat.



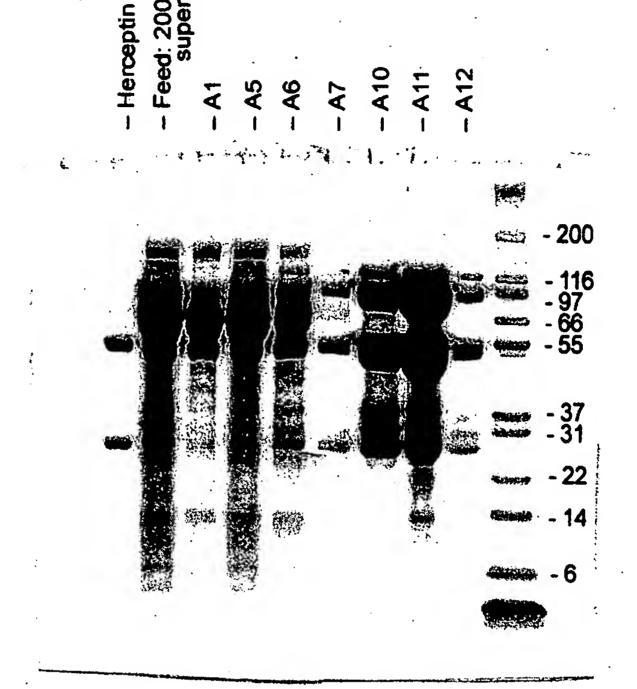
# Figure 3B

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4-12% Bis-Tris MES SDS

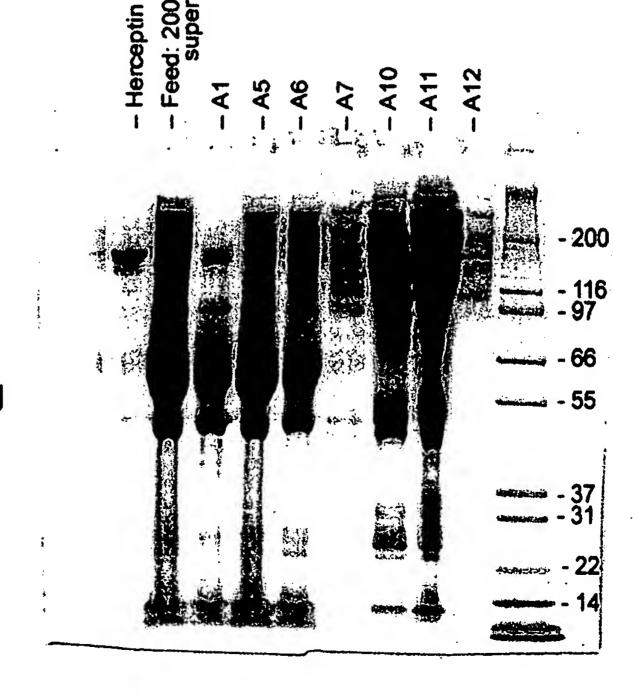
Reducing

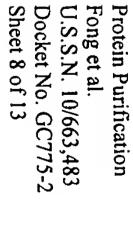


# PAC062602

4-12% Bis-Tris MOPS SDS

Non-reducing





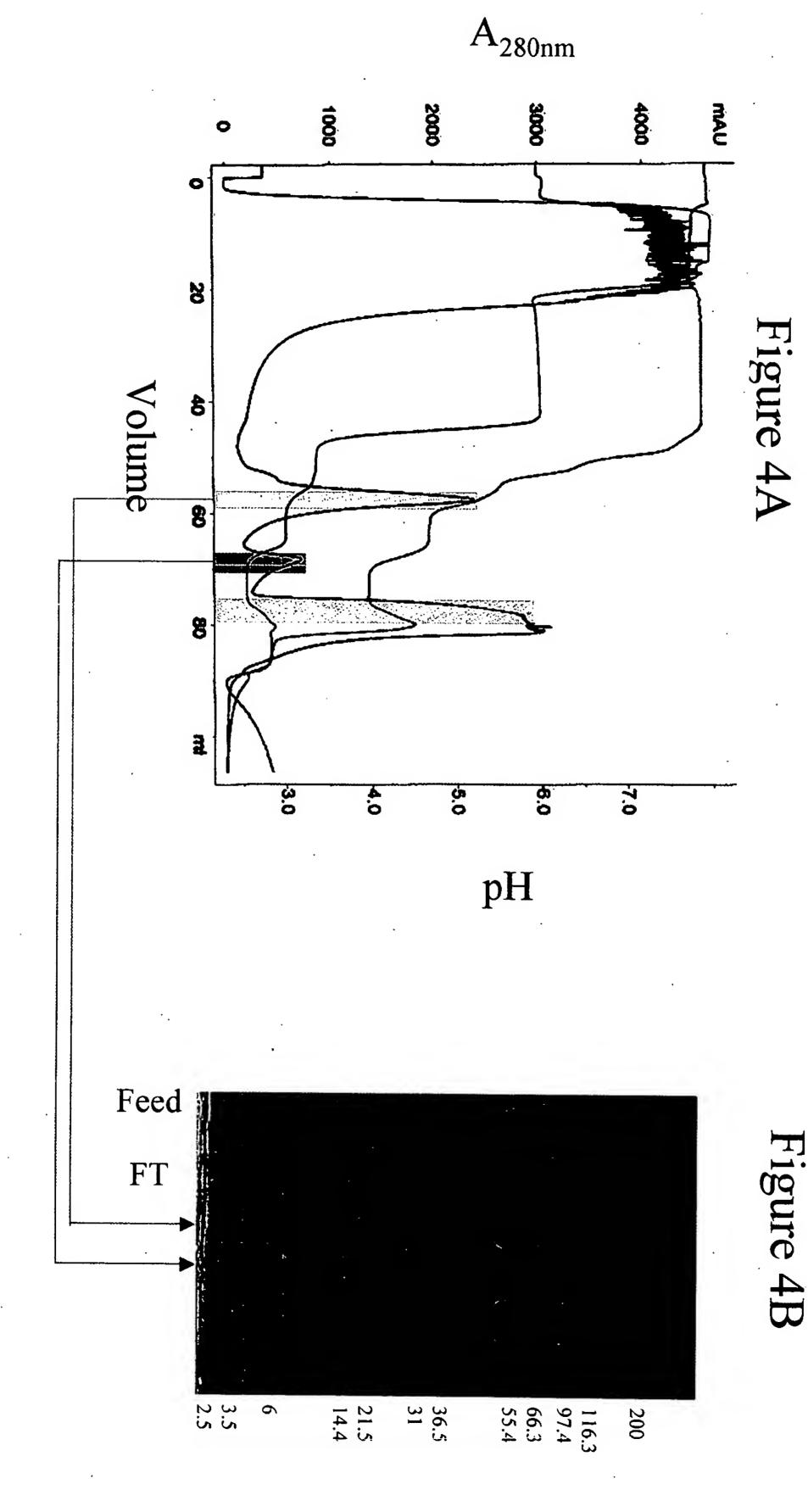
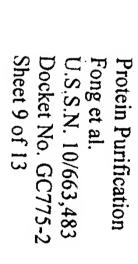


Figure 4: HCIC for mAb/mAB-GA Separation



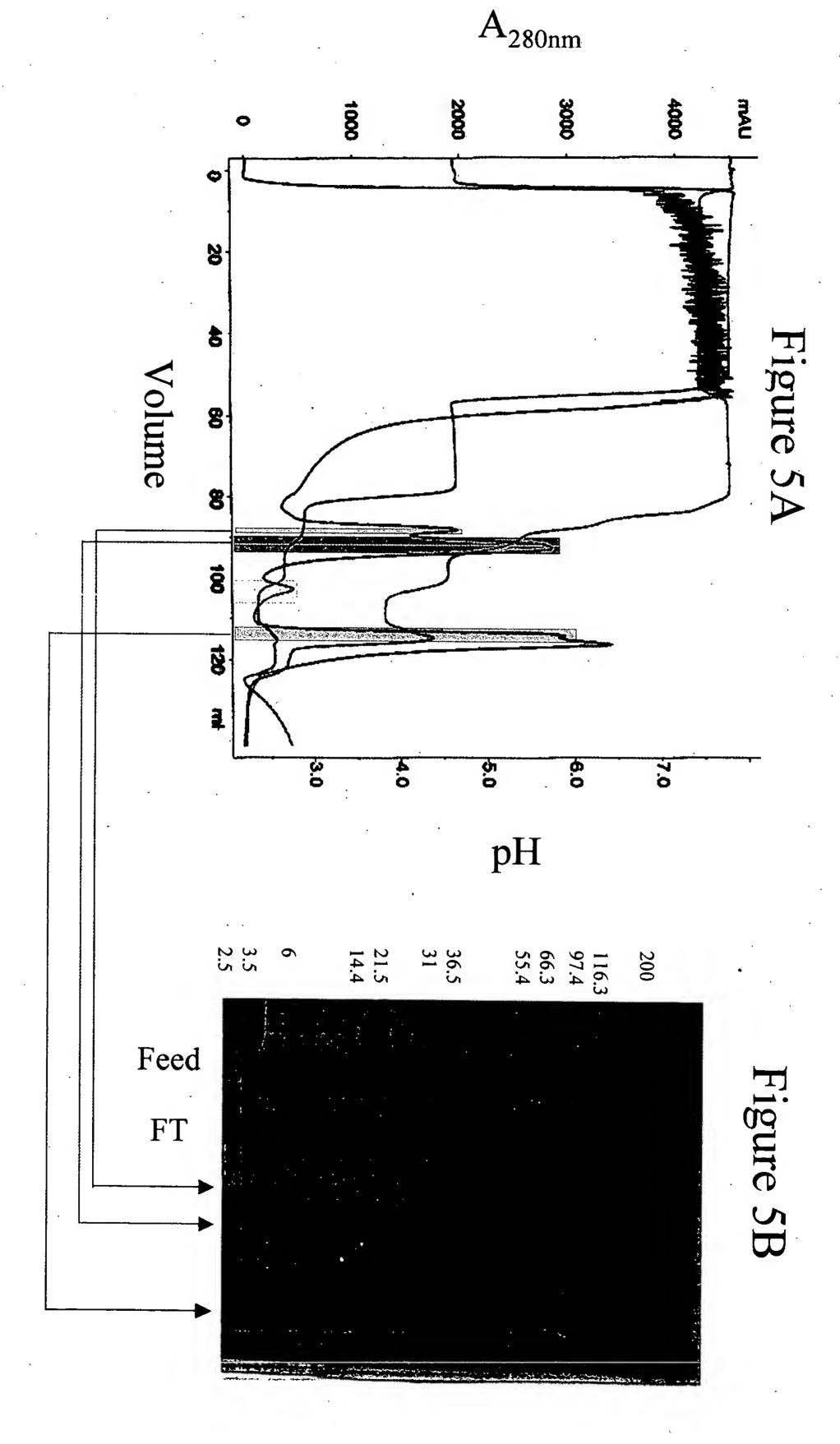
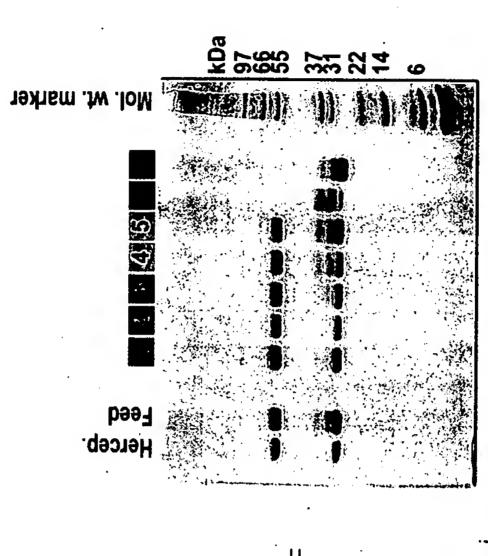


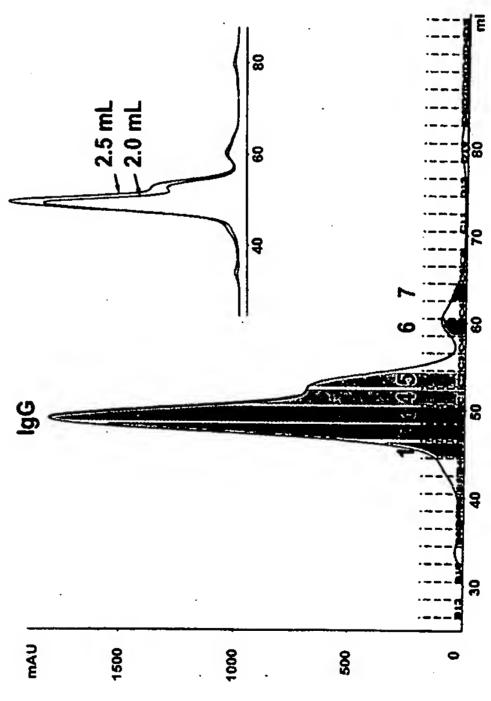
Figure 5: HCIC for Fab'/Fab'-GA Separation

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Figure 6

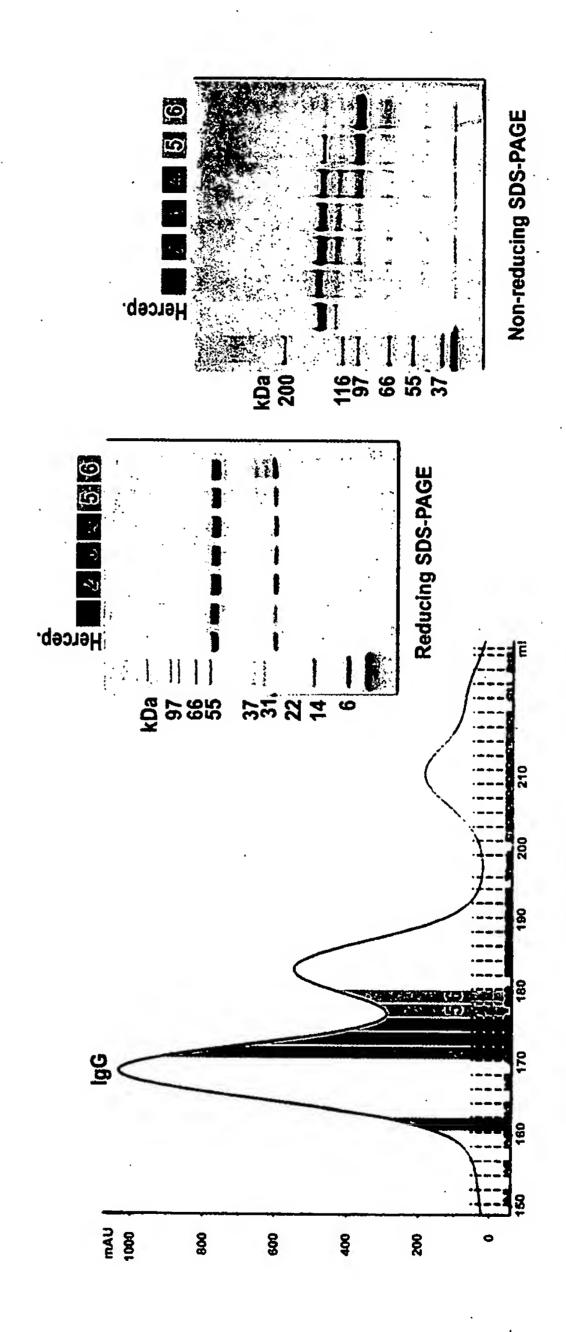


Reducing SDS-PAGE



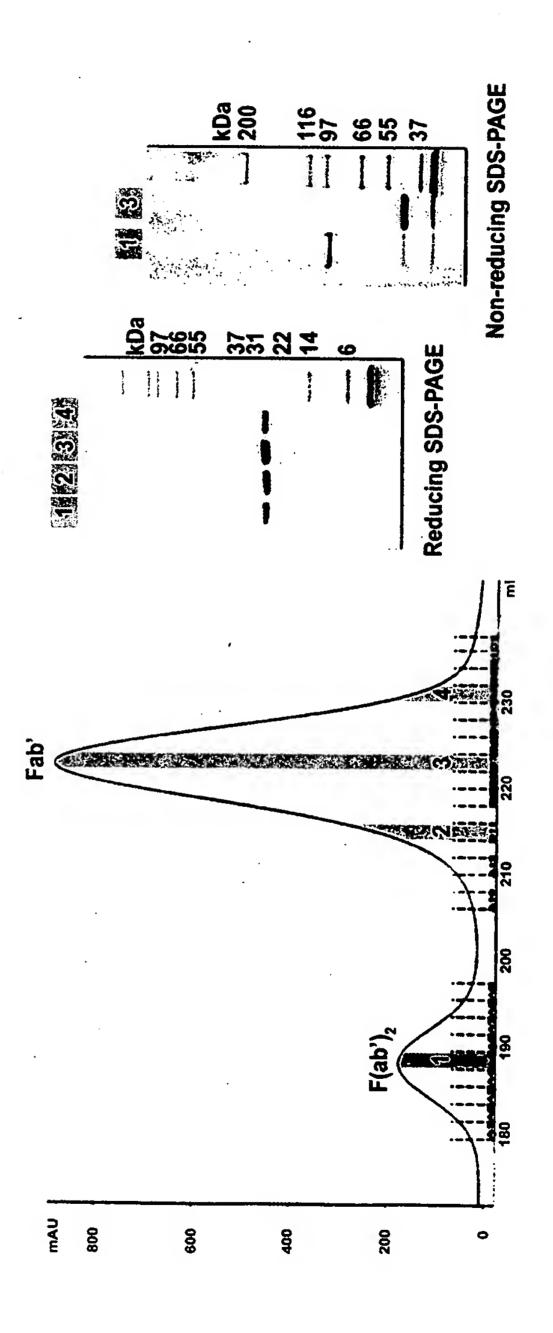
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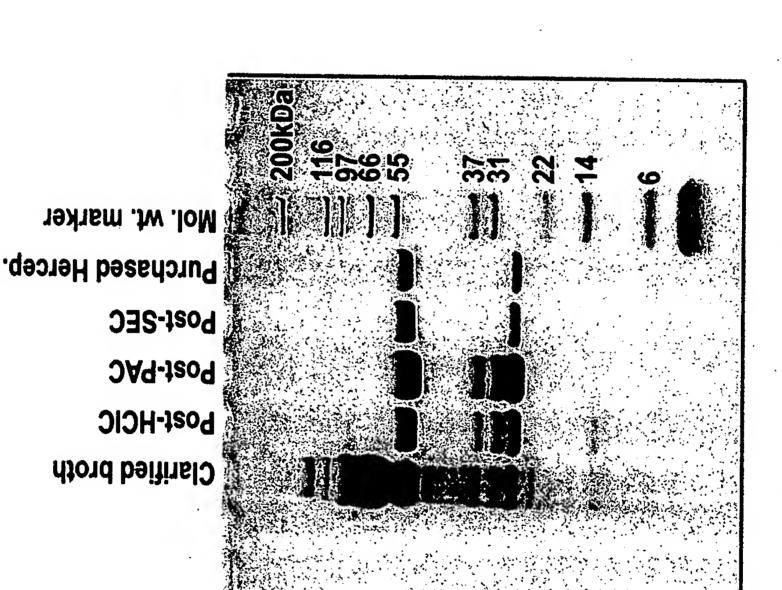


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Figure 8







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